ABSTRACT

Efficient ATM (Asynchronous Transfer Mode) cell switching operations for establishing routing paths for ATM cells in an ATM-based network is achieved by using a newly created field indicating an end destination that is added to the front of an ATM cell header. Network delays and processing loads due to unnecessary ATM cell switching operations are reduced, and waste of VPI (Virtual Path Identifier) and VCI (Virtual Channel Identifier) resources is prevented. Such techniques may be applied to a network board requiring frequent ATM cell switching in an ATM-based mobile communication system.